



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

July 20, 2005

MEMO TO: Don Lee, Berry Jenkins, Michael Taylor, Dan Bernhoff, Jay Bennett, Shannon Sweitzer, Judith Corley-Lay, Stuart Bourne, Jonathan Bivens, Jennifer Brandenburg, Brian Webb, Dave Rankin and Dave Hurley

FROM: J. V. Barbour, P. E.
State Project Services Engineer

SUBJECT: AGC/Roadway Subcommittee Meeting Minutes
July 13, 2005

The subject committee met on July 13, 2005 at 10:00 a.m. in the Project Services Conference Room at the Century Center with the following in attendance:

Victor Barbour	Dave Hurley	Donald Pearson
Jay Bennett	Berry Jenkins	Norma Smith
Dan Bernhoff	Dennis Jernigan	Michael Taylor
Jonathan Bivens	Meredith McDiarmid,	Jimmy Travis
Judith Corley-Lay	Emily McGraw	Brian Webb
Steve DeWitt		

The following items were discussed:

1. FORCE ACCOUNT

Jimmy Travis handed out copies of the new Force Account Specifications that will be in the 2006 Specifications Book, along with a synopsis of the changes. The Department plans to use the new version as a Project Special Provision with the September 2005 letting. If the Industry has comments, please send to Victor Barbour before July 29th, 2005. [See handout no. 1.](#)

2. EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION

Donald Pearson handed out copies of the Erosion and Sediment Control/Stormwater Certification that will be effective with the January 2006 Letting.

The Industry had concerns about some workers being intimidated by a written test and asked the Department to consider alternatives, such as *grandfathering* the experienced workers or offering an oral examination. Examples and problems were cited, such as crane operators tests or those who have English as a second language, or have difficulty reading. The Department will consider alternatives to the written exam. [See handout no. 2.](#)

3. WORK ZONE SUPERVISOR AND FLAGGER CERTIFICATION

Meridith McDiarmid is forming a task force to address the requirements of a flagger certification and Work Zone Supervisor certification. She asked for volunteers from this committee to help develop the criteria and asked for input on others that should be involved.

It was agreed that Work Zone Traffic Control, Construction Unit, AGC contractors, Traffic Services and Maintenance will be represented on this task force. The Industry suggested that the Department consider video training and train the trainer options.

4. 2006 SPECIFICATIONS

Victor reported that the *2006 Standard Specifications for Roads and Structures* is about 50 percent complete. The Industry will be receiving a notebook of the *2006 Specifications* with the September Let and this committee will discuss any issues at the following meeting. There are no major changes in philosophy.

5. VALUE ENGINEERING PROPOSAL DESIGN COST

The Industry questioned why the contractor is responsible for paying for all the design costs in a Value Engineering Proposal. The Department replied that they would review the process.

The Industry also complimented the expeditious handling of the Construction VEPs. However they expressed concern about the time it took to get the monies approved at the Resident Engineer and Construction Unit level. The Department said they would review the time it takes to get an answer.

6. FINANCIAL ISSUES

The Department stated that the Industry will be seeing more alternative opportunities in projects. The Department also asked the Industry for input on ways to save money and build projects more economically without sacrificing quality.

The Department and Industry discussed setting up a one-day workshop to brainstorm ideas that will save money, provide a better product, and/or provide a better value through lifecycle cost consideration. The Department would have representatives available that are knowledgeable and can make decisions for change. The Industry would have representatives attending that are knowledgeable in constructing the projects. They agreed that all attending would have to be open to new ideas, while understanding there are constraints that the Department cannot control.

The Department asked if an escalation factor for projects was feasible as a way to mitigate some of the risks of inflation. The Industry cited several items that have accelerated in price.

The Industry stated that they believe that the fuel adjustment has been incorrectly paid, based on the Specifications. The Department said that HICAMS had some issues, but it has been corrected. The Industry asked if the trucking issue would be revisited, since fuel prices continue to climb. They suggested that the State could be divided into regions, based on proximity of quarries within the state. Discussion also centered on other pay items that overrun or underrun consistently by a considerable amount. The Department said that it is reviewing items that are way out of line, and asked the Industry to let them know of other items that fall into this category.

7. RESPONSE FOR EROSION CONTROL

The Department handed out a draft Project Special Provision, written in the active voice for *Response for Erosion Control*. It specifies the use of a subcontractor and the use of a Form 1675 to track the work requested of, and completed by the subcontractor. The Industry was asked to submit comments to Victor by July 15th, 2005. [See handout no. 3.](#)

NEXT MEETING

The next meeting will be at 10:00 a.m. on September 14, 2005, in the Project Services Conference Room. The last meeting date for 2005 is November 9. The meeting will be at 10:00 a.m. in the Project Services Conference Room. You may want to reserve all day for the meeting in case it runs long, or there is a need to make a field trip in the afternoon.

C: Steve DeWitt, PE
Randy Garris, PE
Ellis Powell, PE
Art McMillan, PE
Jimmy Travis, PE
Emily McGraw, PE



109-3 Force Account Work Specification

Raleigh, North Carolina

June 14, 2005

Synopsis - Force Account Provisions

The following are changes in the Standard Specification 109-3, Force Account Work:

109-3(1) Labor:

- Payment for travel time for labor and foremen outside of a 75 mile radius of the proposed force account work under certain circumstances has been added
- Overtime shall now be pro-rated when labor and foremen are used on work other than force account work within the week
- Payment for the contractor's actual verified labor burden additive, up to maximum of 60%
- Established a minimum labor burden additive of 35%

109-3(2) Subsistence and Travel: (New Section)

- Payment for subsistence and travel costs for labor and foremen outside a 75 mile radius of the proposed force account work under certain circumstances has been added
- Reimbursable costs have been limited to the lesser of the firm's usual costs or State employee maximums
- Subsistence and Travel shall now be pro-rated when labor and foremen are used on work other than force account work within the week

109-3(3) Materials:

- Added Specific language for sales tax inclusion

109-3(4) Equipment:

- No Change in calculation of the equipment rates
- Adjusted the operating additive to 100% of Blue Book operating rate

109-3(5) Miscellaneous:

- No Changes

109-3(6) Subcontracting:

- Independent hauling operators are included as subcontractors for the purposes of Force Account Work

109-3(7) Overhead and Profit: (New Section)

- A 10% additive for overhead and profit on the total cost of the force account work, exclusive of materials and subcontracted work

109-3(8) Bond and Insurance:

- Removed taxes related to payroll and labor and included in them in the new *labor burden rate* or general project costs
- Removed the 6% additive

109-3(9) General:

- Independent Hauling Operators are now compensated for at the contract rate or agreed upon prevailing industry rate

109-3 FORCE ACCOUNT WORK.

All force account work shall be performed as directed by the Engineer including the numbers and types of equipment, the numbers and classifications of labor and foremen, and material requirements.

All work to be paid for on a force account basis shall be paid for in the following manner:

1. Labor. For all authorized labor and foremen in direct charge of the specific operations, the Contractor will receive the **rate of base (actual) wages (or scale) actually being paid by the contractor** for each hour that the labor and foremen are actually engaged in the specific force account work.

In addition to reimbursement for each hour that the labor and foremen are actually engaged in the specific force account work, the Contractor may receive compensation for travel time to and from the project if and only if the labor and foremen needed are outside a 75 mile radius as included in Section 109-3(2). The base location will be established and approved by the Engineer prior to performing the specific force account work. If the approved labor and foremen travel to another project upon completion of the specific force account work, payment for travel time may not exceed the travel time that would have been required to return to the point of origin in accordance with Section 109-3(2).

Prior to beginning the specific force account work, the Contractor will submit in writing for the Engineer's approval a list of all wage rates applicable to the work. Approval will not be granted where these wage rates are not actually representative of wages being paid elsewhere on the project for comparable classes of labor performing similar work.

Payment for overtime will be allowed when approved by the Engineer prior to performing the specific force account work. **Overtime for labor and foremen will be paid based on the company's policy for overtime payment. Verification of such payment will be tracked by submission of weekly payrolls as required on federal projects and as requested on all other projects. If the labor or foremen is employed partly on specific force account work and partly on other work, the amount of overtime to be reimbursed will be prorated based upon the number of hours worked on the specific force account work during the payroll period.**

An additive amount equal to the Contractor's actual labor burden rate, up to a maximum of 60 percent, will be paid to the Contractor for all base (actual) wages paid to labor and foremen for the specific force account work. No additive will be provided for overtime payments. The labor burden rate(s) will include costs associated with the employee's actual base wages benefits, including FICA, unemployment contributions, Social Security and Medicare taxes and company fringe benefits. Company fringe benefits are the actual costs paid to, or on behalf of, workmen by reason of health and welfare benefits, pension fund benefits, or other benefits, when such amounts are required by prevailing wage laws generally applicable to the classes of labor employed on the work. The Contractor's actual labor burden rate(s) will be submitted to and approved by the Engineer prior to beginning the work. When the Contractor cannot verify actual labor burden

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- rate(s), an amount equal to 35% percent of the total base (actual) wage paid for labor and foremen will be added to the total base wages paid to the Contractor. These percentage additives will be full compensation for overhead, benefits, contingencies, and all other costs associated with labor for the specific force account work.
2. **Subsistence and Travel Allowances.** The Contractor may receive payment for actual costs paid to, or on behalf of, labor and foremen by reason of subsistence and travel allowances under certain circumstances. When the Contractor is required to mobilize a crew for specific operations, the Engineer may approve reimbursement of subsistence, including meals and overnight lodging, if the specific force account work is determined to be outside of the scope of the original contract and the distance from the Contractor's base location to the project is more than 75 miles. Should the Contractor utilize forces currently working at the location of the specific force account work, the Engineer may approve the payment of subsistence, including meals and overnight lodging, if the work is determined to be outside of the scope of the original contract, the forces currently working at the location has routinely stayed overnight during the life of the project, and the distance from the Contractor's base location to the project is more than 75 miles.
- Payment will be made to the Contractor for subsistence, including meals and overnight lodging, paid in accordance with the Contractor's usual policy for authorized labor and foremen in direct charge of the specific operations. Subsistence will be limited to the lesser of actual amount paid or the current maximum rate for State employees. Verification of such costs paid to, or on behalf of, labor and foremen will be submitted to the Engineer. If the labor or foremen are partly employed on specific force account work and partly on other work, the amount of subsistence to be reimbursed will be prorated based upon the number of hours worked on the specific force account work during the payroll period.
3. **Materials.** For materials authorized and accepted by the Engineer and used, the Contractor will receive the actual cost of such materials, including sales tax and transportation charges paid by him (exclusive of equipment rentals as hereinafter set forth), to which costs 15% will be added. The Contractor will furnish records to the Engineer to verify the quantities of materials used in the specific force account work, prices of the materials, sales tax, and costs of transportation for the materials.
- If materials used in the specific force account work are not specifically purchased for such work but are taken from the Contractor's stock, the Contractor will furnish an affidavit certifying that such materials were taken from his stock, the quantity was actually used in the specific force account work, and the price and transportation cost claimed represent the actual cost to the Contractor.
4. **Equipment.** For all equipment authorized by the Engineer to be used on the specific force account work the Contractor will receive rental payment.

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Hourly rental rates paid for equipment in use, which is Contractor owned or rented from another Contractor, will not exceed 1/176th of the monthly rate listed in the "Rental Rate Blue Book for Construction Equipment", as published by Dataquest, Incorporated, which is current at the time the specific force account work is performed.

In determining the hourly rate, the regional adjustment factor and the rate adjustment factor for equipment age, as set forth in the current Blue Book, will both be applied to the basic rate. An additive payment equal to 100% percent of the Blue Book estimated operating cost per hour will also be paid for all hours equipment is in use. This additive payment will be full compensation for fuel, lubricants, repairs, servicing (greasing, fueling, and oiling), small tools, and other incidentals.

If rental rates for the equipment actually being used in the work are not listed in the Blue Book, the Contractor will receive the prevailing rental rates being paid for such equipment in the area where the project is located. An additive payment equal to 15 percent of the prevailing rental rate will also be paid for all hours equipment is in use. This additive payment will be full compensation for fuel, lubricants, repairs, servicing (greasing, fueling, and oiling), small tools, and other incidentals.

Hourly rental rates for equipment held in ready as directed by the Engineer will be 50 percent of the rate paid for equipment in use. An additive payment will not be made for equipment held in ready. When equipment is in use less than 40 hours for any given week and is held in ready as directed by the Engineer, payment for held in ready time will be allowed for up to 40 hours, less hours in use. When payment is made for equipment held in ready as directed by the Engineer, the payment for held in ready time will be allowed for up to 8 hours in a day less hours in use.

Hourly rental rates for idle equipment held in ready in accordance with Article 104-4 will be 50 percent of the rate paid for equipment in use. Hourly rental rates for idle equipment held in ready in accordance with Article 104-4 which is rented from a commercial rental agency will be paid for in accordance with the invoice rate for the equipment. An additive payment will not be made for idle equipment. When equipment is in use less than 40 hours for any given week and is held in ready as idle equipment in accordance with Article 104-4, payment for idle equipment time will be allowed for up to 40 hours, less hours in use. When payment is made for idle equipment held in ready in accordance with Article 104-4, the payment for idle equipment time held in ready will be allowed for up to 8 hours in a day less hours in use.

In the event the Contractor does not possess or have readily available such equipment necessary for the performance of the work and such equipment is rented from a commercial rental agency, the Contractor will receive payment based on the approved invoice rate for the equipment.

An additive payment equal to 15 percent of the calculated hourly invoice rate will also be paid for all hours equipment is in use. This additive payment will be full

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compensation for fuel, lubricants, repairs, servicing (greasing, fueling and oiling), small tools, and other incidentals. The commercial rental agency cannot be the Contractor or an affiliate of the Contractor.

No compensation will be made for the use of equipment not authorized by the Engineer.

The Contractor will be reimbursed for the actual transportation costs for equipment which the Contractor is directed to furnish. Such payment will be limited to transportation costs from the nearest source of available equipment. If equipment is not returned to the point of origin, but is transported to another location, transportation costs will not exceed the cost of return to the point of origin. Rental for such equipment will not be paid when the equipment is being transported. The Contractor will furnish records to the Engineer to verify the actual transportation costs for equipment.

The Contractor will provide to the Engineer for approval a listing of all equipment and attachments to be utilized in the prosecution of the work. The list will include the manufacturer's name, type, model, serial number, and year of manufacture. The list will also include the invoice rate for equipment rented from a commercial rental agency. It will be the Contractor's responsibility to verify the age of the equipment in a manner acceptable to the Engineer. Where such verification is not available, the rate adjustment factor used will be for the oldest equipment listed in the Blue Book.

The above prices and payments will be full compensation for fuel, lubricants, cutting edges, all repairs, and all other operating and maintenance costs other than operator's wages.

5. Miscellaneous. No additional allowance will be made for general superintendence, the use of manually powered tools, or other costs for which no specific allowance is herein provided.
6. Subcontracting. For administrative costs of the Contractor in connection with approved subcontract work, the Contractor will receive an amount in accordance with the rate schedule shown below of the total cost of such subcontracted work. The total cost will include labor and additive, bond and insurance, materials, and equipment costs incurred by the subcontractor; and overhead and profit computed in accordance with Items 109-3(1) through 109-3(5), 109-3(7) and 109-3(8).

<u>Total Cost of Subcontract Work</u>	<u>Rate Schedule</u>
\$0 - \$10,000	10%
Above \$10,000	\$1,000 + 5% Above \$10,000

7. Overhead and Profit. An additive payment equal to 10 percent of the specific force account total will be paid to the Contractor. This is exclusive of the portion of the work included with Item 109-3(3), materials, and Item 109-3(6) for subcontracted work. This payment will be full compensation for all costs

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including but not limited to home office and field overhead, burdens, and profit associated with the specific force account work.

8. Bond and Insurance. For property damage and liability insurance premiums and bond premiums on the specific force account work, the Contractor will receive the actual cost. The Contractor will furnish satisfactory evidence to the Engineer of the rate or rates paid for such insurance and bond.

An annualized composite percentage may be used to determine the cost for bond and insurance. Insurance costs will be limited to the direct costs associated with the specific force account work. The Contractor will furnish satisfactory evidence to the Engineer of the annualized composite percentage for the bond and insurance.

9. General. The Engineer will maintain the payment records of work performed on a force account basis. The Contractor will compare records of work with the Engineer at the end of each day on which such work is in progress.

Any contention the Contractor may have for an extension in the completion date, intermediate completion date, or intermediate completion time, due to performance of specific force account work will be considered as provided in Article 108-10.

Contract or independent hauling operators will be subject to the existing contract rates for owner-operator trucks used for the specific force account work. If contract rates are not available, the prevailing industry rates for owner-operator trucks will be used for the specific force account work with approval of the Engineer. For the purposes of force account work, contract or independent hauling operators will be considered subcontractors and subject to the provisions of Item 109-3(6).

EROSION & SEDIMENT CONTROL/STORMWATER CERTIFICATION 04-13-05**GENERAL**

Schedule and conduct construction activities in a manner that will minimize soil erosion and the resulting sedimentation and turbidity of surface waters. Comply with the requirements herein regardless of whether or not an NPDES permit for the work is required.

Establish a chain of responsibility for operations and subcontractor's operations to ensure that the *Erosion and Sediment Control/Stormwater Pollution Prevention Plan* is implemented and maintained over the life of the contract.

Certified Supervisor – Provide a certified Erosion & Sediment Control Stormwater Supervisor to direct the Contractor and subcontractor(s) operations, insure compliance with Federal, State and Local ordinances and regulations, and to direct the Quality Control Program. **Certified supervisors required on all projects let after December 31, 2005.**

Certified Foreman – Provide certified, trained foremen for each construction operation that increases the potential for soil erosion or the possible sedimentation and turbidity of surface waters. **Certified foremen required on all projects let after December 31, 2005.**

Certified Installer – Provide a certified installer to install or direct the installation for erosion or sediment/stormwater control practices. **Certified installers required on all projects let after December 31, 2006.**

OBTAINING CERTIFICATION

Certified Supervisor – Obtain certification by completing a one day Erosion & Sediment/Stormwater Control Site Management Level II training class and passing the required exam provided by North Carolina State University, Department of Biological and Agricultural Engineering. The certification is valid for three years.

Certified Foreman – Obtain certification by completing the one-day Erosion & Sediment Control Stormwater Site Management Level II training course and passing the required exam provided by North Carolina State University, Department of Biological and Agricultural Engineering. The certification is valid for three years.

Certified Installer – Obtain certification by completing a one day Erosion & Sediment Control Stormwater Inspector/Installer Level I training course and passing the required exam provided by North Carolina State University, Department of Biological and Agricultural Engineering. The certification is valid for three years.

ROLES AND RESPONSIBILITIES

Certified Erosion & Sediment Control Stormwater Supervisor

1. Make the Supervisor responsible for ensuring erosion and sediment/stormwater control is adequately implemented and maintained on the project and conducting the quality control program.

Have the Certified Supervisor on the project within 24 hours from initial disturbance of erosion to the project's final acceptance when questions or concerns arise with Erosion and Sedimentation Control/Stormwater issues.

Perform the following duties:

Coordinate and schedule the work of subcontractors so erosion and sediment/stormwater control measures are fully executed for each operation and in a timely manner over the duration of the contract.

Oversee the work of subcontractors so that appropriate erosion and sediment/stormwater control preventive measures are conformed to at each stage of the work.

Prepare the required weekly erosion control punchlist and present it to the Engineer.

Attend all weekly or monthly construction meetings to discuss the findings of the NPDES inspection log and other related issues.

Implement the erosion and sediment/stormwater control site plans requested.

Provide for erosion and sediment/stormwater control methods for Contractor's temporary work not shown on the plans, such as, but not limited to work platforms, temporary construction, pumping operations, plant and storage yards, and cofferdams.

Acquire applicable permits and comply with requirements for borrow pits, dewatering, and any temporary work conducted by the Contractor in jurisdictional areas.

Conduct all erosion and sediment/stormwater control work in a timely and workmanlike manner.

Fully install erosion and sediment/stormwater control work prior to suspension of the work.

Coordinate with NCDOT, Federal, State and Local Regulatory agencies on resolution of erosion and sediment/stormwater control issues due to the Contractor's operations.

Ensure that proper cleanup occurs from vehicle tracking on paved surfaces and/or any location where sediment leaves the Right-of-Way.

Have available an easily understandable updated set of EC plans for review by the project personnel, REU, Field Ops or Regulatory Agencies.

2. Quality Control Program

Maintain a quality control program to control erosion, prevent sedimentation and follow provisions of permits. The quality control program shall:

Follow permit requirements related to the Contractors' and subcontractor(s)' construction activities.

Ensure that all operators and/or subcontractor(s) on site have the proper erosion and sediment/stormwater control certification.

Notify the Engineer when the required certified erosion and sediment/stormwater control personnel are not available on the job site when needed.

Conduct the inspections required by the NPDES permit.

Maintain the NPDES inspection log.

Take corrective actions in the proper timeframe as required by the NPDES permit for problem areas identified during the NPDES inspections.

Incorporate erosion control into the work in a timely manner and stabilize disturbed areas with mulch/seed or vegetative cover on a section-by-section basis.

Maintain temporary erosion and sediment control devices.

Remove temporary erosion or sediment control devices when they are no longer necessary as agreed upon by the Engineer.

The Contractor's quality control and inspection procedures shall be subject to review by the Engineer. Maintain NPDES inspection records at the project site. Make NPDES inspection records available at all times for verification by the Engineer.

Certified Foreman

Have at least one certified foreman onsite for each type of work listed herein during the respective construction activities to control erosion, prevent sedimentation and follow permit provisions:

Foreman in charge of grading activities

Foreman in charge of bridge or culvert construction over jurisdictional areas

Foreman in charge of utility activities

Certified Installers

Provide at least one certified installer for each of the following erosion or sediment/stormwater control operations:

Seeding and Mulching

Temporary Seeding

Temporary Mulching

Sodding

Silt fence or other perimeter erosion/sediment control device installations

Erosion control blanket installation

Hydraulic tackifier installation

Turbidity curtain installation

Rock ditch check/sediment dam installation

Ditch liner/matting installation

Inlet protection

Riprap placement

Stormwater BMP installations (such as but not limited to level spreaders, retention/detention devices)

Pipe installations within jurisdictional areas

PRECONSTRUCTION MEETING

Furnish the names of *the Certified Erosion & Sediment Control Stormwater Supervisor, Certified Foremen*, and notify the Engineer of changes in certified personnel over the life of the contract within 2 days of change.

REVOCATION OF CERTIFICATION

Upon recommendation of the NCDOT Director of Construction to the Certification Board, certification for Supervisor, Certified Foremen, and Certified Installers may be revoked with the issuance of a Continuing Immediate Corrective Action (Continuing ICA), Notice of Violation, or Cease and Desist Order for erosion and sediment control/stormwater related issues. **Details for appeal procedures, etc. to be posted soon (TMSherrod)**

If the Contractor fails to provide a *certified Erosion & Sediment Control Stormwater Supervisor* for the project, the Engineer shall issue a written order to the Contractor. The Contractor shall respond within 24 hours and provide the required Erosion & Sediment Control Stormwater Supervisor or be subject to a \$1000 per calendar day penalty and/or removal from bid list for a specified time.

If the Contractor or subcontractor(s) fail to provide the appropriate *Certified Trained Foremen*, the Erosion & Sediment Control Stormwater Supervisor shall notify the Engineer immediately. If the Engineer determines that one or more required certified foremen have not been provided, the Contractor shall respond to the Engineer's notification within 2 days with the appropriately certified person(s) or provisionally certified person(s) or be subject to a \$500.00 per required foreman per calendar day penalty and/or removal from bid list for a specified time.

If the Contractor or subcontractor(s) fails to provide the required *Certified Installer(s)*, the Erosion & Sediment Control Stormwater Supervisor shall notify the Engineer. If either the Erosion & Sediment Control Stormwater Supervisor or the Engineer determines that one or more required certified installers have not been provided, the Contractor shall respond to the Engineer's notification within 2 days with the appropriately certified person(s) or provisionally certified person(s) or be subject to a \$500.00 per required installer per calendar day penalty and/or removal from bid list for a specified time

MEASUREMENT AND PAYMENT

Certified Erosion & Sediment Control Stormwater Supervisor is incidental to the project for which no direct compensation will be made.

Certified foremen are incidental to the project for which no direct compensation will be made.

Certified installers are incidental to the project for which no direct compensation will be made.

P S P DRAFT

RESPONSE FOR EROSION CONTROL

DRAFT

07-05-05

The 2002 Standard Specifications are revised as follows:

Page 16-40, Section 1675,

Delete Section 1675 and insert the following:

1675-1 DESCRIPTION

Furnish the labor, materials, tools and equipment necessary to move personnel, equipment, and supplies to the project necessary for the pursuit of any or all of the following work as shown herein, by an approved subcontractor.

- A. Seeding and Mulching
- B. Temporary Seeding and Mulching
- C. Temporary Mulching
- D. Fertilizer Topdressing
- E. Repair Seeding
- F. Supplemental Seeding
- G. Silt Fence Installation or Repair
- H. Installation of Matting for Erosion Control

1675-2 CONSTRUCTION METHODS

Provide an approved subcontractor who performs an erosion control action as described in Form 1675. Each erosion control action may include one or more of the above work items.

1675-3 MEASUREMENT AND PAYMENT

Response for Erosion Control will be measured by counting the actual number of times the subcontractor moves onto the project, including borrow and waste sites and satisfactorily completes an erosion control action described in Form 1675. The provisions of Article 104-5 will not apply to the item of work.

Payment will be made under:

Pay Item

Response for Erosion Control

Pay Unit

Each

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Inspector's Daily Report for Environmental/Erosion Control Contractor (EECC)

Project: _____ Day & Date: _____

Prime: _____

Sub: _____ Sub Foreman: _____

Area Description: _____

<u>Pay Item</u>	<u>Standard/Metric Unit</u>		<u>Quantity</u>	<u>Comments</u>
Temporary Silt Fence	LF	M	_____	_____
Temporary Mulching	AC	HA	_____	_____
Seed-Temporary Seeding	LB	KG	_____	_____
Fertilizer-Temporary Seeding	TN	MTN	_____	_____
Synthetic Roving	SY	M ²	_____	_____
Matting for Erosion Control	SY	M ²	_____	_____
Coir Fiber Mat	SY	M ²	_____	_____
Perm. Soil Reinforcement Mat	SY	M ²	_____	_____
Seeding and Mulching	AC	HA	_____	_____
Mowing	AC	HA	_____	_____
Seed-Repair Seeding	LB	KG	_____	_____
Fertilizer-Repair Seeding	TN	MTN	_____	_____
Seed for Supplemental Seeding	LB	KG	_____	_____
Fertilizer Topdressing	TN	MTN	_____	_____
Spec Sdg under Guiderail & Guardrail	AC	HA	_____	_____
Specialized Hand Mowing	HR	HR	_____	_____
Response for Erosion Control	EA	EA	_____	_____
GECl-Safety Fence	LF	M	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Additional Work: (repairs/re-installations that will not be paid for by NCDOT)

Authorized by Prime Contractor Rep: _____ Purchase Order No.: _____

Description/Location: _____

Pay Item: _____ Quantity: _____

We agree that this is the work to be performed: _____ We agree that this work was performed: _____

NCDOT Representative: _____ NCDOT _____

Prime Representative: _____ Prime _____

Use reverse for area descriptions/sketches as needed.

D R A F T